

a channel switching device connected to said transmitting section and said receiving section;

a channel hopping sequence program part including a plurality of channel hopping sequences programmed therein, said plural channel hopping sequences including a channel hopping sequence associated with said each of said plural transceivers;

a channel selecting device connected to said channel switching device and said channel hopping sequence program part for controlling said channel switching device in accordance with one of said plural channel hopping sequences; and

a clock device connected for operating said channel selecting device, said clock device being synchronized by a public time signal for synchronizing channel hopping between a transmitting one of said plural transceivers and a receiving one of said plural transceivers, wherein each of said plural transceivers comprises a unique identification number defining the channel hopping sequence associated with said each of said plural transceivers,

said unique identification number of the transmitting one of said plural transceivers being transmittable by said transmitting one of said plural transceivers and receivable by the receiving one of said plural transceivers for identification by the receiving one of said plural transceivers of the one of said plural channel hopping sequences associated with the transmitting one of said plural transceivers to used for a connection setup between said transmitting one and said receiving one of said plural transceivers.

9. The system of claim 8, wherein said clock device comprises a clock for generating an operating clock signal for the channel selecting device, said clock signal having a frequency within the range including 100 kHz to 10MHz.

10. The system of claim 8, wherein said frequency is approximately 1 MHz.

11. The system of claim 8, wherein said plural channel hopping sequences in said channel hopping sequence program part comprise all possible channel hopping sequences useable by said system.

12. The system of claim 11, wherein each of said plural channel hopping sequences are calculated from an algorithm base on said unique identification numbers of each of said plural transceivers.

13. An apparatus for processing transmit and receive signals, said apparatus being arrangable in a transceiver having a transmitting section and a receiving section and comprising:

a channel switching device connectable to the transmitting section and the receiving section of the transceiver;

a channel hopping sequence program part including a plurality of channel hopping sequences programmed therein, said plural channel hopping sequences including a channel hopping sequence associated with said each of a plurality of transceivers;

a channel selecting device connected to said channel switching device and said channel hopping sequence program part for controlling said channel switching device in accordance with one of said plural channel hopping sequences; and

a clock device connected for operating said channel selecting device, said clock device being synchronized by a public time signal for synchronizing channel hopping between a transmitting one of the plural transceivers and a receiving one of the plural transceivers.

14. A data transfer device for installation in a communication device arranged for at least one of transmitting and receiving data over one of a plurality of communications channels, said data transfer device comprising:

a channel switching device;

a channel hopping sequence program part including a plurality of channel hopping sequences programmed therein, said plural channel hopping sequences including a channel hopping sequence associated with said data transfer device;

a channel selecting device connected to said channel switching device and said channel hopping sequence program part for controlling said channel switching device in accordance with one of said plural channel hopping sequences; and

a clock device connected for operating said channel selecting device, said clock device being synchronized by a public time signal.

15. A method for synchronizing a data transfer operation between a transmitter and a receiver connected via a communication link having cyclically hopping channels, comprising the steps of:

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- (a) calling, by a transmitter, a desired receiver;
 - (b) adjusting a channel hopping sequence in both the transmitter and the desired receiver;
 - (c) receiving a public time signal at both the transmitter and the desired receiver; and
 - (d) synchronizing the transmitter and the receiver using a time signal including one of the public time signal and a signal derived from the public time signal by starting the channel hopping sequence of step (b) in synchronism with the time signal in both the transmitter and the desired receiver.

REMARKS

This preliminary amendment is presented to place the application in proper form for examination and to eliminate multiple dependency from the present claims. No new matter has been added. Early examination and favorable consideration of the above-identified application is earnestly solicited.